

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P298551

Luminaire Tested: **22FPX-32-L835-LV1-SWPD1**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P298551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22FPX-32-L835-LV1-SWPD1
Description: 2x2 FPX SERIES LED PANEL, 3500K CCT AND 80CRI
Light Source: -
Ballast/Driver: -

Luminaire Equipment:	<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
	AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
	AS-5443-2	Good	REFLECTOR
	AS-5443-3	Good	DRIVER
	AS-5443-4	Good	UPPER MODULE
	AS-5443-5	Good	LENS
	AS-5443-6	Good	DRIVER 2
	AS-5443-7	Good	TRIM RING

Summary

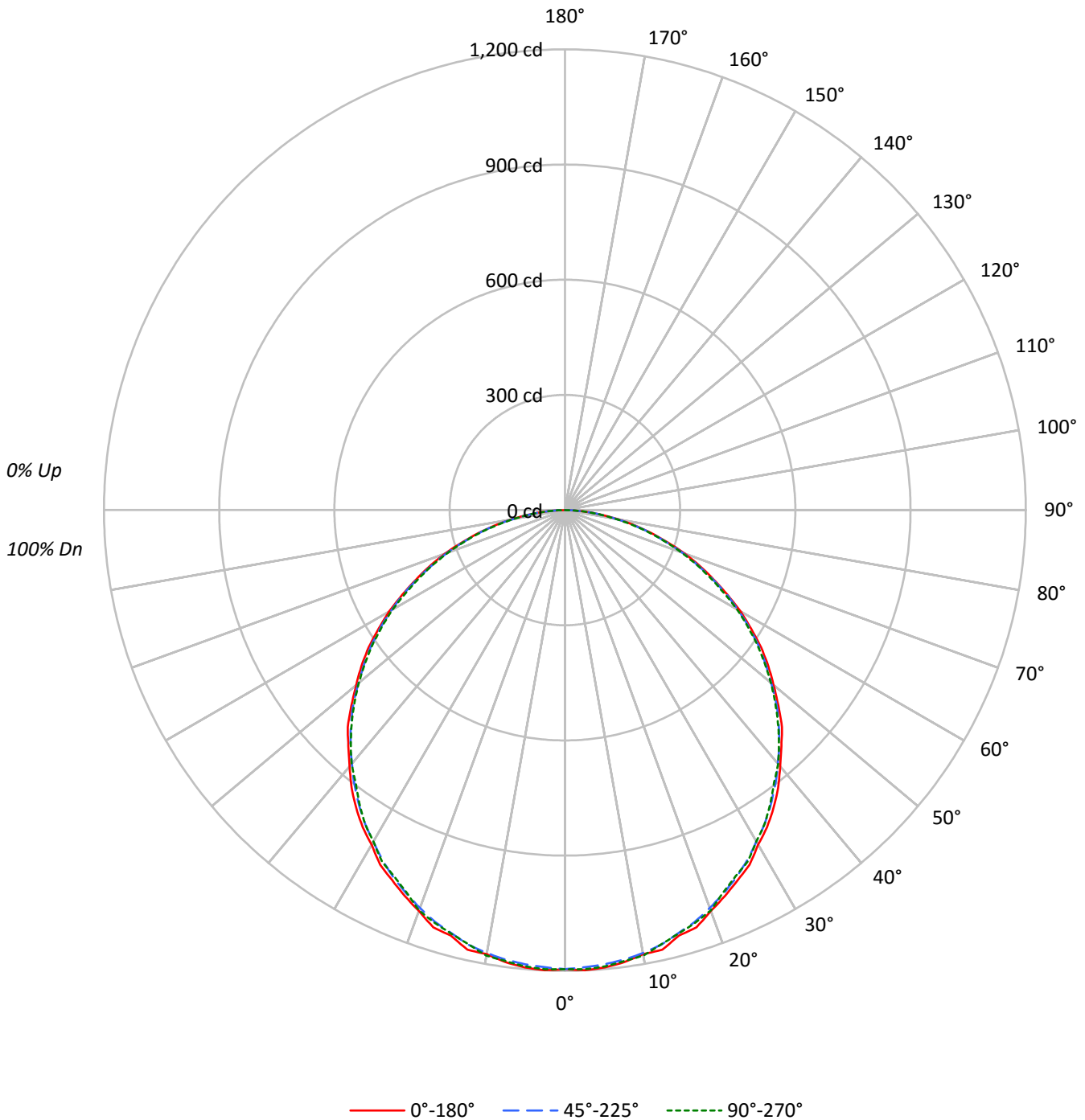
Lumens per Lamp: N/A
Luminaire Lumens: 3400.8 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 30.47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3218	3218	3218
5°	3230	3208	3223
10°	3208	3201	3219
15°	3196	3178	3182
20°	3182	3159	3178
25°	3159	3135	3123
30°	3127	3098	3098
35°	3112	3072	3063
40°	3063	3030	3035
45°	3042	2996	2986
50°	2970	2936	2930
55°	2925	2887	2868
60°	2842	2806	2784
65°	2720	2695	2660
70°	2622	2579	2537
75°	2444	2403	2375
80°	2207	2165	2123
85°	1868	1825	1785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	3.3
10°-20°	323.2	9.5
20°-30°	487.7	14.3
30°-40°	586.4	17.2
40°-50°	607.6	17.9
50°-60°	549.7	16.2
60°-70°	419.5	12.3
70°-80°	244.6	7.2
80°-90°	69.1	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	923.9	27.2
0°-40°	1510.3	44.4
0°-60°	2667.6	78.4
0°-90°	3400.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3400.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1196	1192	1188	1188	1193	113
15°	1147	1146	1141	1143	1142	325
25°	1064	1064	1056	1056	1052	491
35°	947	940	935	934	932	592
45°	799	790	787	783	785	614
55°	623	619	615	613	611	556
65°	427	427	423	422	418	424
75°	235	234	231	227	228	248
85°	60	63	59	60	58	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1195.7	1195.7	1195.7	1195.7	1195.7
2.5°	1199.7	1193.0	1191.7	1194.4	1197.0
5°	1195.7	1191.7	1187.6	1187.6	1193.0
7.5°	1187.6	1183.6	1180.9	1180.9	1184.9
10°	1174.2	1170.2	1171.5	1171.5	1178.2
12.5°	1172.9	1160.8	1159.4	1160.8	1158.1
15°	1147.3	1146.0	1140.6	1143.3	1142.0
17.5°	1139.3	1131.2	1124.5	1125.8	1127.2
20°	1111.1	1108.4	1103.0	1104.3	1109.7
22.5°	1088.2	1089.6	1080.2	1080.2	1077.5
25°	1064.0	1064.0	1056.0	1056.0	1051.9
27.5°	1041.2	1034.5	1027.8	1029.1	1031.8
30°	1006.3	1003.6	996.9	998.2	996.9
32.5°	979.4	978.1	968.6	966.0	968.6
35°	947.2	940.4	935.1	933.7	932.4
37.5°	912.2	906.8	900.1	898.8	894.8
40°	871.9	870.6	862.5	863.9	863.9
42.5°	834.3	830.3	826.2	823.6	824.9
45°	799.4	790.0	787.3	783.2	784.6
47.5°	753.7	749.7	747.0	741.6	742.9
50°	709.4	709.4	701.3	700.0	700.0
52.5°	667.7	665.0	658.3	659.6	655.6
55°	623.4	619.3	615.3	612.6	611.3
57.5°	575.0	571.0	568.3	564.3	564.3
60°	528.0	522.6	521.3	515.9	517.2
62.5°	476.9	475.6	474.2	470.2	466.2
65°	427.2	427.2	423.2	421.9	417.8
67.5°	380.2	377.5	373.5	373.5	370.8
70°	333.2	329.2	327.8	323.8	322.4
72.5°	280.8	280.8	276.8	275.4	275.4
75°	235.1	233.8	231.1	227.0	228.4
77.5°	188.1	186.7	185.4	182.7	181.4
80°	142.4	142.4	139.7	141.1	137.0
82.5°	99.4	100.8	98.1	98.1	95.4
85°	60.5	63.1	59.1	60.5	57.8
87.5°	25.5	25.5	24.2	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)